CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, DBMP
Name of Work	Construction of Retaining wall in front of RTO Complex in B- Sector in Ward No. 61, Yelahanka Satellite Town Sub Division
Name of Agency	M/s. K. R. I. D. L
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC Work	23/10/2014	20/11/2014	28	8.17	480	**21.33**	**21.33**
2					8.14	485	**21.56**	
3					8.19	475	**21.11**	

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IR:383/2380

Name & Address of the Customer	AEE, Yelahanka Sattelite Town Sub Division, BBMP
Name of Work	Construction of Ranganaandika in front of RTO Complex in R- Sector in Ward No. 04, Yelahanka Sattelite Town Sub Division
Name of the Agency	M/s. K. R. I. D. L
Date of Testing	22/09/2014
Specific Gravity	2.65
Water Absorption in %	0.28

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	98.9	95-100	
20	61.2	30-70	
10	24.3	10-35	
4.75	3.8	0-5	

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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2086

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of Ranganandina in front of RTO Complex in D- Sector in Ward No. 04, Yelahanka Satellite Town Sub Division.
Name of the Agency	M/s. K. R. I. D. L
Date of Testing	22/09/2014
Specific Gravity	2.62
Water Absorption in %	0.32

IS Sieve Designation (mm)	**Sieve Analysis** (% Passing IS Sieve)	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**98.9**	95-100	
10	**32.8**	25-55	
4.75	**7.9**	0-10	

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TEST REPORT

TEST ON FINE AGGREGATES Ref IS 383/2386

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of Ranganandira in front of RTO Complex in D- Sector in Ward No. 04, Yelahanka Satellite Town Sub Division.
Name of the Agency	M/s. K. R. I. D. L
Date of Testing	23/09/2014
Specific Gravity	2.55

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	98.7	90-100	90-100	90-100	95-100	
	2.36	89.5	60-95	75-100	85-100	95-100	
	1.18	78.9	30-70	55-90	75-100	90-100	
	0.6	48.3	15-34	35-59	60-79	80-100	
	0.3	22.4	5-20	8-30	12-40	15-50	
	0.15	8.9	0-10	0-10	0-10	0-15	

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of Ramp,remodeling in front of BTO Complex in R- Sector in Ward No. 04, Yelahanka Satellite Town Sub Division.
Name of the Agency	M/s. S. M. L. D. L
Date of Testing	22/09/2014

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS:4031 (Part-5) 1988	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS:4031 (Part-5) 1988	VICAT	497	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS:4031 (Part-3) 1988	LE-CHATELIER	2	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BARS 8mm

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of Ranganandiya in front of RTO Complex in B- Sector in Ward No. 04, Yelahanka Satellite Town Sub Division.
Name of the Agency	M/s. K. R. I. D. L
Date of Testing	16/10/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.396	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/mm^2)	420	415	Satisfactory
6	U T S (N/mm^2)	525	485	Satisfactory

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Yelahanka Satelite Town Sub Division, BBMP
Name of Work	Construction of Rangamandira in front of RTO Complex in B- Sector in Ward No. 04, Yelahanka Satellite Town Sub Division.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	16/10/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.4	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	425	415	Satisfactory
6	U T S (N/Sq.mm)	531	485	Satisfactory

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of Rangamandira in front of RTO Complex in B- Sector in Ward No. 04, Yelahanka Satellite Town Sub Division
Name of the Agency	M/s. K. R. I. D. L
Date of Test	16/10/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	431	415	Satisfactory
6	U T S (N/Sq.mm)	542	485	Satisfactory

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TEST REPORT

TEST ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka Sattelite Town Sub Division, BBMP
Name of Work	Construction of Bungamandira in front of RTO Complex in B- Sector in Ward No. 04, Yelahanka Sattelite Town Sub Division.
Name of Agency	M/s. K. R. I. D. L
Date of Test	11/10/2014
Reference	IS: 2185(Part-I)2005
No. of samples tested	8
Grade	C (4.0)

COMPRESSIVE STRENGTH

Sl.No	Nominal Dimension (cms)	Compressive strength (N/mm²)	Minimum Compressive Strength IS: 2185(Part-I)2005	
			Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
1	40x15x20	4.8	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
2		4.7		
3		4.5		
4		4.9		
5		4.8		
6		4.8		
7		4.7		
8		4.7		
Average compressive strength		4.8		

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WATER ABSORBTION

Sl.No	Nominal Dimension(cms)	Water Absorbtion (% by weight)	Average (% by Wt.)	Requirements as per IS: 2185(Part-I)2005
1	40x15x20	6.45	6.45	When three samples are tested the average water absorption shall not be more than 10% by mass
2		6.48		
3		6.41		

BLOCK DENSITY

Sl.No	Nominal Dimension(cms)	Block Density (kg/cu.m)	Average (Kg/cu.m)	Requirements as per IS: 2185(Part-I)2005
1	40x15x20	1875.40	1876.1	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m³
2		1879.60		
3		1873.20		

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